



**Curriculum For The
Bachelor Degree
In
Architectural Engineering
2020**



Established 1997

Curriculum for the Bachelor Degree in Architectural Engineering

The curriculum for the B.S.c. degree in Architectural Engineering (167) credit hours are distributed as follows:-

Course No.	Requirements	Credit Hours (Cr.H)
1	University Requirements <ul style="list-style-type: none">• Compulsory• Elective	24 18 6
2	Faculty Requirements	28
3	Specialization Requirements <ul style="list-style-type: none">• Compulsory• Elective	115 106 9
Total		167



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First : University Requirement (24 Cr .H.)

A: Compulsory Requirements (18 Cr.H.):

Course No.	Course	Cr. Hrs.	Weekly Hrs.		Prerequisite
			Lec.	Lab.	
AAL101	Applied Arabic Language	3	3	-	Arabic 99 OR passing Arabic Level Exam
AEL101	Applied English Language (1)	3	3	-	English 99 OR passing English Level Exam
AEL102	Applied English Language (2)	3	3	-	AEL101
NE101	National Education and University Behavior	3	3	-	-
٣٥٠٠١١٠١	Military Sciences	3	3	-	Pasing 90 Cr. Hrs.
CS101	Computer Skills and E-Learning	1	1	-	Computer Skills 99 OR passing Computer Skills Level Exam
IEC101	Innovation, Entrepreneurship, and Creativity	2	2	-	
Total		18	18	-	

B: Elective University Requirements : (6 Cr.H.)

The student is allowed to select (6 Cr.H.) from the university elective courses offered by faculties other than the faculty of college.

Course No.	Course	Credit Hours
36001101	Communication Skills	3
36002102	Introduction to Psychology	3
36003103	Jordan Society	3
36004104	Sport for All	3
36005105	Islamic Culture	3
36006110	Modern Administrative Concepts and skills	3
36009111	Economic Concepts	3
36007107	Agriculture in Jordan	3
36008108	Environment and Society	3
36012109	History of the Rightly Guided Caliphs	3
36009114	Jerusalem (Palestinian issue)	3
36009112	Law, Media and Society	3
36009109	Islam and Life	3
36009115	Digital Community	3
Total		6



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Second: Faculty Requirements: (28 Cr .H.)

Course No.	Course Title	Cr.H.	Weekly Hours		Prerequisite
			Lecture	Lab.	
30202101	Calculus 1	3	3	-	-
30202102	Calculus 2	3	3	-	30202101
30201101	General physics 1	3	3	-	-
30201111	General physics 1 Lab	1	-	3	30201101
ARE0193	Introduction to Architecture Drawing	3	2	3	-
ARE0267	Computer Drawing 1	2	1	3	ARE0193
ARE0474	Specifications, Contracts and Calculation of quantities	3	3	-	ARE0336
BSE0102	Engineering Workshop	1	-	3	-
ARE0209	Ethics and Communication Skills	3	3	-	-
BSE0202	Statistics and Probabilities for Engineers	3	3	-	30202101
BSE0401	Engineering Economy	3	3	-	Pass 80 Cr. Hr.
Total		28	24	12	

Third: Specialization Requirements: (116 Cr .H.)

A- Compulsory Requirements: (107 Cr .H.)

Course No.	Course Title	Cr.H.	Weekly Hours		Perquisites
			Lectures	Lab	
ARE0191	Free Hand Drawing 1	1	-	3	-
ARE0190	Free Hand Drawing 2	1	-	3	ARE0191
ARE0185	Introduction to Architectural Design 1	3	1	6	-
ARE0184	Introduction to Architectural Design 2	3	1	6	ARE0185
ARE0192	Architectural Drawing	3	1	6	ARE 0193
ARE0268	Computer Drawing 2	3	1	6	ARE0267
ARE0281	Architectural Design 1	4	0	12	ARE0184
ARE0280	Architectural Design 2	4	0	12	ARE0281
ARE0233	Construction of Buildings 1	3	2	3	-
ARE0232	Construction of Buildings 2	3	2	3	ARE0233
ARE0215	History And Theories of	3	3	-	-



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	Architecture 1				
ARE0214	History And Theories of Architecture 2	3	3	-	ARE0215
ARE0298	Survey Principles For Architecture Students	2	1	3	ARE0192
ARE0381	Architectural Design 3	4	-	12	ARE0280
ARE0380	Architectural Design 4	4	-	12	ARE0381
ARE0334	Executive Designs	3	1	6	ARE0232
ARE٠٣٣٧	Construction Mechanics	3	3	0	30202102
ARE0336	Introduction to Structural Design	3	3	0	ARE0337
ARE0315	History and Theories of Architecture (3)	3	3	0	ARE0214
ARE 0323	Behavior And The Built Environment	3	3	0	ARE0214
ARE0339	Sanitary and Heating and Air Conditioning Systems	3	3	0	ARE0232
ARE0362	Building Modeling BIM	2	0	6	ARE0298
ARE0481	Architectural Design (5)	4	0	12	ARE0380
ARE0480	Architectural Design (6) (Urban Design)	4	0	12	ARE0481
ARE0423	Urban Design Theories	3	3	0	ARE0380
ARE0448	Site Coordination Engineering	3	2	3	ARE0475
ARE0437	Lighting And Acoustics	3	2	3	ARE0334
ARE0475	Provisions For Construction and Practice of The Profession	3	3	0	ARE0334
ARE0472	Engineering Supervision and Project Management	2	2	0	ARE0475
ARE0521	Urban Planning and Housing	3	2	3	ARE0423
ARE0476	Field Training	3	3	0	Pass (120) C.H
ARE0550	Sustainable Architecture	3	2	3	ARE0555
ARE0555	Environmental Control	3	3	0	ARE0339
ARE0583	Graduation Project (1)	2	2	0	ARE0480
ARE0584	Graduation Project (2)	6	6	0	Pass ARE0583
Total		106	61	135	



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B: Elective Specialization Requirements: (9) Cr.H. to be selected from the following list:

Course No.	Course Title	Cr.H	Weekly Hours		Prerequisites
			Lectures	Lab	
ARE 0535	Advanced Construction Systems	3	2	3	ARE0232
ARE 0527	Special Topics in Architecture	3	3	0	Passing 120 Cr. Hrs.
ARE 0589	Interior Design	3	2	3	ARE0280
ARE 0542	Management and Preservation of Heritage Resources	3	3	0	ARE0315
ARE0429	Architectural Criticism and Analysis	3	3	0	ARE0315
ARE0439	Geographic Information Systems and Their Application	3	2	3	ARE0298